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TECH CENTER 1600



1600

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/832,658A

DATE: 02/27/2003

TIME: 10:58:01

Input Set : A:\BGN-14.txt

Output Set: N:\CRF4\02272003\I832658A.raw

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4 <110> APPLICANT: Pepinsky, Blake
5           Punkel, Laura
6           Frickelmaier, Margot
7           Whitty, Adrian
8           Hochman, Paula
10 <120> TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a
11           and Uses
13 <130> FILE REFERENCE: G0639-514/A065
15 <140> CURRENT APPLICATION NUMBER: 09/832,658A
16 <141> CURRENT FILING DATE: 2001-04-11
18 <150> PRIOR APPLICATION NUMBER: ECT/US99/24201
19 <151> PRIOR FILING DATE: 1999-10-15
21 <150> PRIOR APPLICATION NUMBER: 60/104,572
22 <151> PRIOR FILING DATE: 1998-10-16
24 <150> PRIOR APPLICATION NUMBER: 60/120,161
25 <151> PRIOR FILING DATE: 1999-02-16
27 <160> NUMBER OF SEQ ID NOS: 40
29 <170> SOFTWARE: FastSEQ for Windows Version 4.0
31 <210> SEQ ID NO: 1
32 <211> LENGTH: 549
33 <212> TYPE: DNA
34 <213> ORGANISM: murine
36 <400> SEQUENCE: 1
37 tccggggggccc atcatcatca tcatcatagc tccgggagagc atgatgacaa gatgagctac      60
38 aacttacttg gattcctaca aagaagcagc aattttcagt gtcagaagct cctgtggcaa      120
39 ttaaatggga ggttgaata ctgctcagc gacaggatga actttgacat ccttgaggag      180
40 attaagcagc tgcagcagtt ccagaacgag gacgcgcgat tgaccatcta tgagatgctc      240
41 cagaacatct tgcctatctt cagacaagat tcatctagca ctggctggaa tgagactatt      300
42 gttgagaacc tccctggctaa tctctatca cagataaacc atctgaagac agtccctggaa      360
43 gaaaaacttg aaaaagcaga ttccaccagg ggaaaaactca tgagcagctc gcacctgaaa      420
44 agctattatg gaaggattct gcattacttg aagycacagg aytacagtca ctgtgcctgg      480
45 accatagtaa gattggaat cctaaggcac ttttacttca ttaacagact tacaggttac      540
46 cttcccaaac
48 <210> SEQ ID NO: 2
49 <211> LENGTH: 183
50 <212> TYPE: PPT
51 <213> ORGANISM: murine
53 <400> SEQUENCE: 2
54 Ser Gly Gly His His His His His Ser Ser Gly Asp Asp Asp Asp
55 1 5 10 15
56 Lys Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe
57 20 25 30
58 Gln Cys Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys

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59          35          40          45
60 Leu Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu
61          55          60
62 Gln Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu
63 64          70          75          80
64 Gln Arg Phe Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp
65          85          90          95
66 Asn Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile
67          100          105          110
68 Asn His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe
69          115          120          125
70 Thr Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly
71          125          130          135          140
72 Arg Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp
73 74          135          140          145          150
74 Thr Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg
75          155          160          165          170          175
76 Leu Thr Gly Tyr Leu Arg Asn
77          175
80 <10> SEQ ID NO: 3
81 <11> LENGTH: 60
82 <11> TYPE: DNA
83 <11> ORGANISM: human
84 <400> SEQUENCE: 3
85 acatgcaggag acatgatga caagatgagc tacaacttgc ttggattcct acaaagaagc
86 <10> SEQ ID NO: 4
87 <11> LENGTH: 39
88 <11> TYPE: DNA
89 <11> ORGANISM: human
90 <400> SEQUENCE: 4
91 cccgctcagc caccagttt cggaggtaac ctgtaagtc
92 <10> SEQ ID NO: 5
93 <11> LENGTH: 25
94 <11> TYPE: DNA
95 <11> ORGANISM: human
96 <400> SEQUENCE: 5
97 cacttcaggc cgcacatc atcatcatca tagct
98 <10> SEQ ID NO: 6
99 <11> LENGTH: 25
100 <11> TYPE: DNA
101 <11> ORGANISM: human
102 <400> SEQUENCE: 6
103 cccggagcct cctgatgatg atgatggccc ccgga
104 <10> SEQ ID NO: 7
105 <11> LENGTH: 27
106 <11> TYPE: DNA
107 <11> ORGANISM: human
108 <400> SEQUENCE: 7
109 caggaga ga tggatgaaag atggcttaag ccgctcttgg agcctacaa gcttctagca

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125 <11> ORGANISM: human
127 <400> SEQUENCE: 15
128 cctcctatg a cttctatg agatgctcca gaacatcttt gctattttcg ctgcagcttc 60
129 ctctcagatc gctcagaa 72
131 <11> SEQ ID NO: 16
132 <11> LENGTH: 72
133 <11> TYPE: DNA
134 <11> ORGANISM: human
136 <400> SEQUENCE: 16
137 ggaatgcttc aattgttgc gcaactcctga gcaatgtcta tcacagata aaccatctga 60
138 ggaatgcttc aa 72
139 <11> SEQ ID NO: 17
140 <11> LENGTH: 72
141 <11> TYPE: DNA
142 <11> ORGANISM: human
144 <400> SEQUENCE: 17
145 ggaatgaaac cctgtttgag aacctcctgg ctaatgtcgc tcacagata gcacatctgg 60
146 cctgttttct aa 72
148 <11> SEQ ID NO: 18
149 <11> LENGTH: 44
150 <11> TYPE: DNA
151 <11> ORGANISM: human
153 <400> SEQUENCE: 18
154 ctacacacaa aactggtctgc agctgatttc accaggggaa aact 44
155 <11> SEQ ID NO: 19
156 <11> LENGTH: 69
157 <11> TYPE: DNA
158 <11> ORGANISM: human
160 <400> SEQUENCE: 19
161 ctacacacaa aactggagaa agaagcagct accgctggaa aagcaatgag cgcgctgcac 60
162 ctacacacaa 69
164 <11> SEQ ID NO: 20
165 <11> LENGTH: 51
166 <11> TYPE: DNA
167 <11> ORGANISM: human
169 <400> SEQUENCE: 20
170 ttttatatga ggaattctga ttacctgaag gccaaaggagt actcacactg t 51
171 <11> SEQ ID NO: 21
172 <11> LENGTH: 76
173 <11> TYPE: DNA
174 <11> ORGANISM: human
176 <400> SEQUENCE: 21
177 cctcagacat ctgcacctga aaagatatta tggggcaatt gctgcatacc tggcagccaa 60
178 ggaattatca cctcgc 76
179 <11> SEQ ID NO: 22
180 <11> LENGTH: 87
181 <11> TYPE: DNA
182 <11> ORGANISM: human
184 <400> SEQUENCE: 22

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```

249 catagcact cggcaccga aaagatatta tgggaggatt ctgcattacc tgaaggccgc 60
250 tgcactctca actgtgact ggaagat 87
251 ->11- SEQ ID NO: 23
252 ->11- LENGTH: 87
253 ->11- TYPE: DNA
254 ->11- ORGANISM: human
255 ->400- SEQUENCE: 23
256 catagcact cggcaccga aaagatatta tgggaggatt ctgcattacc tgaaggcaaa 60
257 ggaagcact ggaagcact ggaagcact ggaagcact 87
258 ->10- SEQ ID NO: 24
259 ->11- LENGTH: 50
260 ->11- TYPE: DNA
261 ->11- ORGANISM: human
262 ->400- SEQUENCE: 24
263 cgttagcact gaaactctag caaactttgc attcattgca agacttacg 50
264 ->10- SEQ ID NO: 25
265 ->11- LENGTH: 166
266 ->11- TYPE: PRT
267 ->11- ORGANISM: human
268 ->400- SEQUENCE: 25
269 Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln
270 1 5 10 15
271 Cys Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu
272 20 25 30
273 Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln
274 35 40 45
275 Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln
276 50 55 60
277 Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Thr Gly Trp Asn
278 65 70 75 80
279 Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn
280 85 90 95
281 His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe Thr
282 100 105 110
283 Arg Gly Ala Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg
284 115 120 125
285 Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr
286 130 135 140
287 Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Arg Ile Asn Arg Leu
288 145 150 155 160
289 Thr Gly Tyr Leu Arg Asn
290 165
291 ->10- SEQ ID NO: 26
292 ->11- LENGTH: 166
293 ->11- TYPE: PRT
294 ->11- ORGANISM: human
295 ->400- SEQUENCE: 26
296 Met Ala Tyr Ala Ala Leu Gly Ala Leu Gln Ala Ser Ser Asn Phe Gln
297 1 5 10 15

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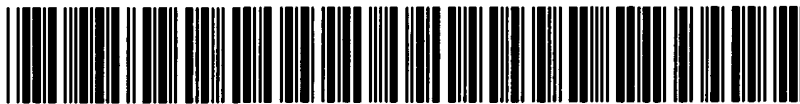
VERIFICATION SUMMARY

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Total number of pages: 4

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Order of re-scan issued on .....